

CLAIMS

1. A SCSI-to-IP cache storage system that interconnects a host computing device or a storage unit to a switched packet network, said cache storage system comprising:

5 a SCSI interface that facilitates system communication with the host computing device or the storage unit;

an Ethernet interface that allows the system to receive data from and send data to the Internet;

a processing unit that includes a processor and memory;

10 a log disk configured as a sequential access device that caches data along with said memory resident in said processing unit, wherein said log disk and said memory are configured as a two-level hierarchical cache; and

a disk storage device that receives data from and provides data to the two level hierarchical cache.

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2. The SCSI-to-IP cache storage system of claim 1, wherein said memory comprises RAM.

3. The SCSI-to-IP cache storage system of claim 2, wherein said RAM comprises NVRAM.

20 4. The SCSI-to-IP cache storage system of claim 3, wherein said disk storage device comprises a redundant array of inexpensive disks.

5. A SCSI-to-IP cache storage system that interconnects a host computing device or a

storage unit to a switched packet network, said cache storage system comprising:

a SCSI interface that facilitates system communication with the host computing device or the storage unit;

an Ethernet interface that allows the system to receive data from and send data to the
5 Internet;

a processing unit that includes a processor and RAM;

a log disk that caches data along with said RAM, wherein said log disk and said RAM are configured as a two-level hierarchical cache; and

a disk storage device that receives data from and provides data to the two level
10 hierarchical cache.